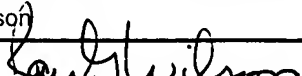


UTILITY PATENT APPLICATION TRANSMITTAL		Attorney Docket No.: S-102,315	
		First Inventor or Application Identifier: Rangachary Mukundan	
		Title: MIXED-POTENTIAL HYDROCARBON SENSOR WITH LOW SENSITIVITY TO METHANE AND CO	
		Express Mail Label No.: ER 31184594 U S	
APPLICATION ELEMENTS		ADDRESS TO: Commissioner for Patents Mail Stop Patent Application PO Box 1450 Alexandria, VA 22313-1450	
1. <input checked="" type="checkbox"/> * Fee Transmittal Form (e.g. PTO/SB/17) (submit an original and a duplicate for fee processing) 2. <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. 3. <input checked="" type="checkbox"/> Specification [Total Pages: 13] <input checked="" type="checkbox"/> Descriptive title of the Invention <input checked="" type="checkbox"/> Cross References to Related Applications <input checked="" type="checkbox"/> Statement Regarding Fed sponsored R&D <input type="checkbox"/> Reference to sequence listing, a table or a computer program listing appendix <input checked="" type="checkbox"/> Background of the Invention <input checked="" type="checkbox"/> Brief Description of the Drawings (if filed) <input checked="" type="checkbox"/> Detailed Description <input checked="" type="checkbox"/> Claim(s) <input checked="" type="checkbox"/> Abstract of the Disclosure 4. <input checked="" type="checkbox"/> Drawings(s) (35 U.S.C. 113) [Total Sheets: 5] <input checked="" type="checkbox"/> Formal <input type="checkbox"/> Informal 5. <input checked="" type="checkbox"/> Declaration & Power of Attorney [Total Pages: 2] a. <input type="checkbox"/> Newly executed (original or copy) b. <input checked="" type="checkbox"/> Copy from a prior application (37 C.F.R. § 63(d) (for continuation/divisional with Box 16 completed) c. <input type="checkbox"/> <u>DELETION OF INVENTOR(S)</u> Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33 (b).		6. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 7. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) a. <input type="checkbox"/> Computer Readable Copy b. Specification Sequence Listing on: i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); or ii. <input type="checkbox"/> paper c. <input type="checkbox"/> Statement verifying identity of above copies <div style="text-align: center;">ACCOMPANYING APPLICATION PARTS</div> 8. <input type="checkbox"/> Assignment Papers (cover sheet & documentation) 9. <input type="checkbox"/> 37 C.F.R. § 3.73(b) Statement (when there is an assignee) <input type="checkbox"/> Power of Attorney 10. <input checked="" type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations 11. <input checked="" type="checkbox"/> Preliminary Amendment 12. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (should be specifically itemized) 13. <input type="checkbox"/> Certified Copy of Priority Document(s) (if foreign priority is claimed) 14. <input type="checkbox"/> Nonpublication Request and Certification Under 35 U.S.C. 122(b)(2)(b)(i) 15. <input type="checkbox"/> Other:	
16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment: <input type="checkbox"/> Continuation <input checked="" type="checkbox"/> Divisional <input type="checkbox"/> Continuation-in-part (CIP) of prior application S.N. 10/158,997. Prior application information: Examiner: T. H. Tung Group/Art Unit: 1753 <small>For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.</small>			
16. CORRESPONDENCE ADDRESS			
<input checked="" type="checkbox"/> Customer Number 35068 OR <input type="checkbox"/> Correspondence Address Below <div style="text-align: center; font-size: 1.2em;">35068</div>			
Name: Ray G. Wilson Address: Los Alamos National Laboratory, LC/IP, MS A187 City: Los Alamos State: New Mexico Zip Code: 87545 Country: United States Telephone: (505) 665-3112 Fax: (505) 665-4424			
Name: Ray G. Wilson		Registration No.: 28,351	
Signature: 		Date: November 25, 2003	

 16235 U.S. PTO
10/723075


FEE TRANSMITTAL For FY 2004 <small>Patent fees are subject to annual revision (submit an original and a duplicate for fee processing)</small>		Complete if Known	
		Application Number:	
		Filing Date:	November 25, 2003
		First Named Inventor:	Rangachary Mukundan
		Examiner Name:	
		Group/Art Unit:	
		Attorney Docket No.:	S-102,315

METHOD OF PAYMENT	FEE CALCULATION (continued)																																																																																																																																																																					
<p>1. <input checked="" type="checkbox"/> The commissioner is hereby authorized to charge indicated fees and credit any over payments to: Deposit Account Number: 12-2150 Deposit Account Name: Los Alamos National Laboratory</p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 C.F.R. 1.16 and 1.17</p> <p><input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27</p>	<p>3. ADDITIONAL FEES</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Large Entity Fee</th> <th style="width: 15%;">Small Entity Fee</th> <th style="width: 55%;">Fee Description</th> <th style="width: 15%; text-align: right;">Fee Paid</th> </tr> </thead> <tbody> <tr> <td>\$130</td> <td>\$65</td> <td>Surcharge – late filing fee or oath</td> <td></td> </tr> <tr> <td>\$50</td> <td>\$25</td> <td>Surcharge – late provisional filing fee or cover sheet</td> <td></td> </tr> <tr> <td>\$2,520</td> <td>\$2,520</td> <td>For filing a request for reexamination</td> <td></td> </tr> <tr> <td>\$110</td> <td>\$55</td> <td>Extension for reply within first month</td> <td></td> </tr> <tr> <td>\$420</td> <td>\$210</td> <td>Extension for reply within second month</td> <td></td> </tr> <tr> <td>\$950</td> <td>\$475</td> <td>Extension for reply within third month</td> <td></td> </tr> <tr> <td>\$1,480</td> <td>\$740</td> <td>Extension for reply within fourth month</td> <td></td> </tr> <tr> <td>\$2,010</td> <td>\$1,005</td> <td>Extension for reply within fifth month</td> <td></td> </tr> <tr> <td>\$330</td> <td>\$165</td> <td>Notice of Appeal</td> <td></td> </tr> <tr> <td>\$330</td> <td>\$165</td> <td>Filing a brief in support of an appeal</td> <td></td> </tr> <tr> <td>\$290</td> <td>\$145</td> <td>Request for oral hearing</td> <td></td> </tr> <tr> <td>\$110</td> <td>\$55</td> <td>Petition to revive – unavoidable</td> <td></td> </tr> <tr> <td>\$110</td> <td>\$55</td> <td>Terminal Disclaimer</td> <td></td> </tr> <tr> <td>\$1,330</td> <td>\$665</td> <td>Petition to revive – unintentional</td> <td></td> </tr> <tr> <td>\$130</td> <td>\$130</td> <td>Petitions to the Commissioner</td> <td></td> </tr> <tr> <td>\$50</td> <td>\$50</td> <td>Petitions related to provisional applications</td> <td></td> </tr> <tr> <td>\$180</td> <td>\$180</td> <td>Submission of Information Disclosure Statement</td> <td></td> </tr> <tr> <td>\$770</td> <td>\$385</td> <td>Filing a submission after final rejection (37 CFR 1.129 (a))</td> <td></td> </tr> <tr> <td>\$770</td> <td>\$385</td> <td>For each additional invention to be examined (37 CFR 1.129(b))</td> <td></td> </tr> <tr> <td>\$100</td> <td>\$100</td> <td>Certificate of Correction</td> <td></td> </tr> <tr> <td>\$300</td> <td>\$300</td> <td>Publication fee for early, voluntary, or normal publication</td> <td></td> </tr> <tr> <td>\$770</td> <td>\$385</td> <td>Request for Continued Examination (RCE)</td> <td></td> </tr> <tr> <td colspan="4">Other fee (specify) _____</td> </tr> <tr> <td colspan="3" style="text-align: right;">SUBTOTAL (3)</td> <td style="text-align: right;">\$</td> </tr> <tr> <td colspan="4" style="text-align: right;">Reduced by Basic Filing Fee Paid</td> </tr> </tbody> </table>	Large Entity Fee	Small Entity Fee	Fee Description	Fee Paid	\$130	\$65	Surcharge – late filing fee or oath		\$50	\$25	Surcharge – late provisional filing fee or cover sheet		\$2,520	\$2,520	For filing a request for reexamination		\$110	\$55	Extension for reply within first month		\$420	\$210	Extension for reply within second month		\$950	\$475	Extension for reply within third month		\$1,480	\$740	Extension for reply within fourth month		\$2,010	\$1,005	Extension for reply within fifth month		\$330	\$165	Notice of Appeal		\$330	\$165	Filing a brief in support of an appeal		\$290	\$145	Request for oral hearing		\$110	\$55	Petition to revive – unavoidable		\$110	\$55	Terminal Disclaimer		\$1,330	\$665	Petition to revive – unintentional		\$130	\$130	Petitions to the Commissioner		\$50	\$50	Petitions related to provisional applications		\$180	\$180	Submission of Information Disclosure Statement		\$770	\$385	Filing a submission after final rejection (37 CFR 1.129 (a))		\$770	\$385	For each additional invention to be examined (37 CFR 1.129(b))		\$100	\$100	Certificate of Correction		\$300	\$300	Publication fee for early, voluntary, or normal publication		\$770	\$385	Request for Continued Examination (RCE)		Other fee (specify) _____				SUBTOTAL (3)			\$	Reduced by Basic Filing Fee Paid				<p>1. BASIC FILING FEE</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Large Entity Fee</th> <th style="width: 15%;">Small Entity Fee</th> <th style="width: 55%;">Fee Description</th> <th style="width: 15%; text-align: right;">Fee Paid</th> </tr> </thead> <tbody> <tr> <td>\$770</td> <td>\$385</td> <td>Utility filing fee</td> <td style="text-align: right;">385.00</td> </tr> <tr> <td>\$770</td> <td>\$385</td> <td>Reissue filing fee</td> <td></td> </tr> <tr> <td>\$160</td> <td>\$80</td> <td>Provisional filing fee</td> <td></td> </tr> <tr> <td colspan="3" style="text-align: right;">SUBTOTAL (1)</td> <td style="text-align: right;">\$385.00</td> </tr> </tbody> </table> <p>2. EXTRA CLAIM FEES</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;"></th> <th style="width: 15%;">Extra Claims</th> <th style="width: 15%;">Fee from</th> <th style="width: 15%;">Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Total Claims</td> <td>4 – 20** = X</td> <td></td> <td>=</td> </tr> <tr> <td>Independent Claims</td> <td>1–3 ** = X</td> <td></td> <td>=</td> </tr> <tr> <td>Multiple Dependent Claims</td> <td></td> <td></td> <td>=</td> </tr> </tbody> </table> <p>** or number previously paid, if greater; For Reissues, see below</p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Large Entity Fee</th> <th style="width: 15%;">Small Entity Fee</th> <th style="width: 70%;">Fee Description</th> </tr> </thead> <tbody> <tr> <td>\$18</td> <td>\$9</td> <td>Claims in excess of 20</td> </tr> <tr> <td>\$86</td> <td>\$43</td> <td>Independent claims in excess of 3</td> </tr> <tr> <td>\$290</td> <td>\$145</td> <td>Multiple dependent claim, if not paid.</td> </tr> <tr> <td>\$86</td> <td>\$43</td> <td>** Reissue independent claims over original patent</td> </tr> <tr> <td>\$18</td> <td>\$9</td> <td>** Reissue claims in excess of 20 and over original patent</td> </tr> <tr> <td colspan="3" style="text-align: right;">SUBTOTAL (2)</td> </tr> <tr> <td colspan="3" style="text-align: right;">\$0.00</td> </tr> </tbody> </table>	Large Entity Fee	Small Entity Fee	Fee Description	Fee Paid	\$770	\$385	Utility filing fee	385.00	\$770	\$385	Reissue filing fee		\$160	\$80	Provisional filing fee		SUBTOTAL (1)			\$385.00		Extra Claims	Fee from	Fee Paid	Total Claims	4 – 20** = X		=	Independent Claims	1–3 ** = X		=	Multiple Dependent Claims			=	Large Entity Fee	Small Entity Fee	Fee Description	\$18	\$9	Claims in excess of 20	\$86	\$43	Independent claims in excess of 3	\$290	\$145	Multiple dependent claim, if not paid.	\$86	\$43	** Reissue independent claims over original patent	\$18	\$9	** Reissue claims in excess of 20 and over original patent	SUBTOTAL (2)			\$0.00		
Large Entity Fee	Small Entity Fee	Fee Description	Fee Paid																																																																																																																																																																			
\$130	\$65	Surcharge – late filing fee or oath																																																																																																																																																																				
\$50	\$25	Surcharge – late provisional filing fee or cover sheet																																																																																																																																																																				
\$2,520	\$2,520	For filing a request for reexamination																																																																																																																																																																				
\$110	\$55	Extension for reply within first month																																																																																																																																																																				
\$420	\$210	Extension for reply within second month																																																																																																																																																																				
\$950	\$475	Extension for reply within third month																																																																																																																																																																				
\$1,480	\$740	Extension for reply within fourth month																																																																																																																																																																				
\$2,010	\$1,005	Extension for reply within fifth month																																																																																																																																																																				
\$330	\$165	Notice of Appeal																																																																																																																																																																				
\$330	\$165	Filing a brief in support of an appeal																																																																																																																																																																				
\$290	\$145	Request for oral hearing																																																																																																																																																																				
\$110	\$55	Petition to revive – unavoidable																																																																																																																																																																				
\$110	\$55	Terminal Disclaimer																																																																																																																																																																				
\$1,330	\$665	Petition to revive – unintentional																																																																																																																																																																				
\$130	\$130	Petitions to the Commissioner																																																																																																																																																																				
\$50	\$50	Petitions related to provisional applications																																																																																																																																																																				
\$180	\$180	Submission of Information Disclosure Statement																																																																																																																																																																				
\$770	\$385	Filing a submission after final rejection (37 CFR 1.129 (a))																																																																																																																																																																				
\$770	\$385	For each additional invention to be examined (37 CFR 1.129(b))																																																																																																																																																																				
\$100	\$100	Certificate of Correction																																																																																																																																																																				
\$300	\$300	Publication fee for early, voluntary, or normal publication																																																																																																																																																																				
\$770	\$385	Request for Continued Examination (RCE)																																																																																																																																																																				
Other fee (specify) _____																																																																																																																																																																						
SUBTOTAL (3)			\$																																																																																																																																																																			
Reduced by Basic Filing Fee Paid																																																																																																																																																																						
Large Entity Fee	Small Entity Fee	Fee Description	Fee Paid																																																																																																																																																																			
\$770	\$385	Utility filing fee	385.00																																																																																																																																																																			
\$770	\$385	Reissue filing fee																																																																																																																																																																				
\$160	\$80	Provisional filing fee																																																																																																																																																																				
SUBTOTAL (1)			\$385.00																																																																																																																																																																			
	Extra Claims	Fee from	Fee Paid																																																																																																																																																																			
Total Claims	4 – 20** = X		=																																																																																																																																																																			
Independent Claims	1–3 ** = X		=																																																																																																																																																																			
Multiple Dependent Claims			=																																																																																																																																																																			
Large Entity Fee	Small Entity Fee	Fee Description																																																																																																																																																																				
\$18	\$9	Claims in excess of 20																																																																																																																																																																				
\$86	\$43	Independent claims in excess of 3																																																																																																																																																																				
\$290	\$145	Multiple dependent claim, if not paid.																																																																																																																																																																				
\$86	\$43	** Reissue independent claims over original patent																																																																																																																																																																				
\$18	\$9	** Reissue claims in excess of 20 and over original patent																																																																																																																																																																				
SUBTOTAL (2)																																																																																																																																																																						
\$0.00																																																																																																																																																																						
SUBTOTAL FROM 1 \$385.00 SUBTOTAL FROM 2 \$-0- SUBTOTAL FROM 3 \$-0- TOTAL AMOUNT OF PAYMENT \$385.00																																																																																																																																																																						

SUBMITTED BY		Complete (if applicable)	
Printed Name:	Ray G. Wilson	Reg. No.	28,351
Signature:		Date: 11/25/03	Telephone: (505) 665-3112